



PCT/AU96/00668

2/24	3/24
4/24	5/24
6/24	7/24

Fig. 1

J. . . .

-60	tga	aaa	ıgat	aga	.ata	aat	ggc	ctc	gtg
1 1	ATO			CCA P		CTG L	CTG L	GGC G	GAG
61				_		_	_		
21			GTT V				•	E E	V
121			CTC						
41	E	N	L	С	${f T}$	Ι	I	W	Т
181			AGA						
61	T	L	R	Y	F	S	Н	F	D
241	CAT	CGT	AAA	GAG	GAA	TTA	CCC	CTG	GAT
81	Н	R	K	E	E	L	Р	L	D
301	AGT	GCC	AAT	GAA	AGT	GAG.	AAG	CCT	AGC
101	S	A	N	E	S 	E	K	P	S
361	GGT	GAT	CCT	GAG	TCC	GCT	GTG.	ACT	GAG
121	G	D	P	E	S	A	V	T	E
421			TCC			CCT	GGA		AAT
141	K	С	S	W 	L.	P 	G 	R 	<u>N</u> .

Fig. 1(i)

	ccg	aat	tcg	gca	cga	gcc	gag	gcg	agg	gcc	tgc
	CTG	TTG									GTG
	L	L	V	L	L	L	W	\mathbf{T}	A	T	, <u>A</u>
,	CAG	CCA	CCT	GTG	ACG.	AAT	TTG	AGC	GTC	TCT	GTC
	Q	P	P	V	${f T}$	<u>N</u>	L	S	V	S	V
1	TGG	AGT	CCT	CCT	GAA	GGA	GCC	AGT	CCA	AAT	TGĆ
	W	S	P	P	E	G	A	S	P	N	С
(GAC	CAA	CAG	GAT.	AAG.	AAA	ATT	GCT	CCA	GAA	ACT
	D	Q	Q	D	K	K	I.	A	P	E	\mathbf{T}
(GAG	AAA	ATC'		CTG				±.	•	•
(AAA K		TGT	CTG	CAG		GGC	TCT	CAG	•
	E	K	I	TGT C	CTG	CAG Q	GTG V	GGC G	TCT S	CAG Q	TGT C
	E	K	I	TGT C	CTG(L AAG(CAG Q	GTG V ATC	GGC G	TCT S	CAG Q ———————————————————————————————————	TGT C
(E CCT' P	K TTG(L	I GTG. V	TGT C AAA K	CTG(L AAG(CAG Q TGC. C	GTG V ATC I	GGC G TCA S	TCT S CCC P	CAG Q CCT P	TGT C GAA E
(E CCT' P	K TTG L AAG'	I GTG. V	TGT C AAA K ATT	CTG L AAG K	CAG Q TGC. C	GTG V ATC I AAC	GGC G TCA S	TCT S CCC P	CAG Q CCT P	TGT C GAA E
(E CTC	K TTG(L AAG' K	I V TGC	TGT C AAA K ATT	CTG(L AAG' K TGG(CAG Q TGC C CAT	GTG V ATC I AAC	GGC G TCA S CTG L	TCT S CCC P AGC S	CAG Q CCT P TAT	TGT C GAA E ATG M
(E CTC	K TTG(L AAG' K	I V TGC	TGT C AAA K ATT	CTG L AAG' K TGG' W	CAG Q TGC C CAT	GTG V ATC I AAC	GGC G TCA S CTG L	TCT S CCC P AGC S	CAG Q CCT P TAT Y	TGT C GAA E ATG M

Fig. 1(ii)

OSDELETE DECEMBE

4.0.1		7.77.0				1010		3.00	a a m
481] `								'CGT
161	W	Y	S	S	L	E	K	S	R
541	ארים 	тССТ	ካጥርጥ	тсс	لميليل	AAA	<u>י</u> רידי	аст	AAA
181	I	A	C	S	F	K	L	T	K
601	ATA	ATG	GTC	AAG	GAT	TAA	GCT	GGG	AAA
201	I	M	V	K	D	N	A	G	K
661	TCC	TAT	GTG	AAA	CCT	GAT	CCT	CCA	CAT
221	S	Y	V	K	P	D	P	P	H
=04			~-~	_~~	~		~~~	~	
721		GTG					-	_	
241	L	V	Q	W	K	N	P	Q	N
781	CTC	AAT	አአጥ	አ ርጥ	$C \lambda \lambda$	አ ር	GAC	CGA	C Δ T
261	V	N	N	T T	CAA	T T	D D	R	H
201	V	1//	14	1	Q	1	ט	17	11
841	AAT	TCC	GAA	TCT	GAT.	AGA	AAC.	ATG	GAG
281	N	S	E	S	D	R	N	М	E
901	GCC	GAC	GCT	GTC'	TAC.	ACA	GTC.	AGA	GTA
301	A	D	Α	V	Y	${f T}$	V	R	V
961	AAC	AAA	CTG	TGG.	AGT	GAT'	TGG.	AGT	GAA
321	N	K	L	W	S	D	W	S	E
1		 							<u> </u>

Fig. 1(iii)

CAA	TGT	'GAA	AAC	ATC	TAT	'AGA	GAA	GGT	'CAA	CAC
Q '	C	E	N	I	Y	R	E	G	Q	H
GTG	GAA	.CCT	AGT	TTT	GAA	CAT	'CAG	AAC	GTT	CAA
V	E	P	S	F	Ε	Н	Q	N	V	Q
ATT	AGG	CCA	TCC	TGC	AAA	ATA	.GTG	TCT	TTA	ACT
I	R	P	S	С	K	I	V	S	L	T
ATT	AAA	CAT	CTT	СТС	CTC	AAA	AAT	GGT	GCC	TTA
I	K	H	L	L	L	K	N	G	A	L
TTT.	AGA	AGC	AGA	TGC	$ ext{TTA}$	ACT	TAT	GAA	GTG	GAG
F	R	S	R	С	L	${f T}$	Y	E	V	E
AAT.	ATT	TTA	GAG	GTT	GAA	GAG	GAC.	AAA	TGC	CAG
N	I	L	E	V	E	E	D	K	С	Q
GGT.	ACA.	AGT'	TGT	TTC	CAA	CTC	ССТ	GGT	GTT	CTT
G	T	S	С	F	Q	L	P	G	V	L
AGA	GTC.	AAA	ACA	AAC.	AAG	TTA	TGC	$\mathbf{T}\mathbf{T}\mathbf{T}$	GAT	GAC
R	V	K	Т	N	K	L	С	F	D	D
GCA	CAG.	AGT.	ATA	GGT.	AAG	GAG	CAA	AAC	TCC.	ACC
A	Q	S	I	G	K	E	Q	N	S	Т

Fig. 1(iv)

osomista .carsa

1021 341	TTCTACACCACCATGTTACTCACCATT F Y T T M L L T I
1081	CTTTTTTACCTGAAAAGGCTTAAGATC
361	L F Y L K R L K I
1141	ATTTTTAAAGAAATGTTTGGAGACCAG
381	I F K E M F G D Q
1201	ATCTATGAGAAACAATCCAAAGAAGAA
401	I Y E K Q S K E E
1261	AAAGCAGCTCCTTGAtggggagaagtg
421	K A A P *
1321	gatttattgcattctccatttgttatc
1381	cttgaaaaacaggcagctcctaagagc
1441	ccaaacccaaaggagctccttccaaga
1501	ccctaaaagcagatgttttgccaaatc
1561	accatcaattcatctaatcaggaattg

Fig. 1(v)

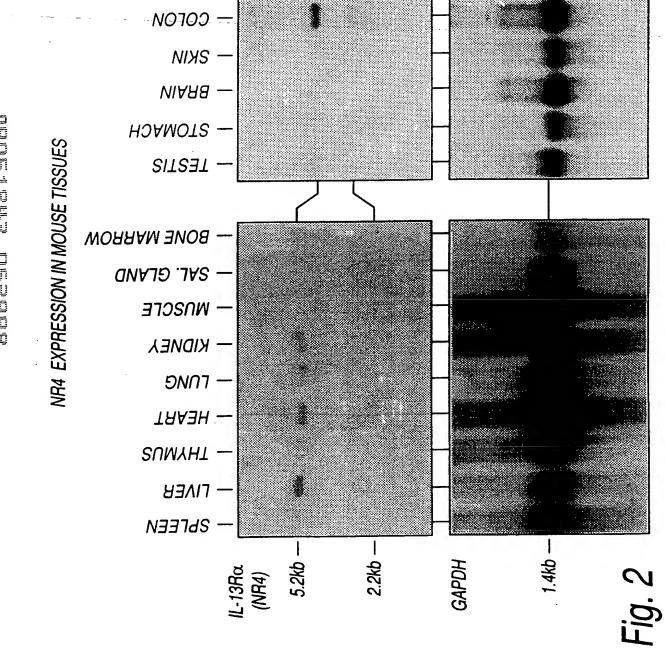
DODIERA .. DEED DO

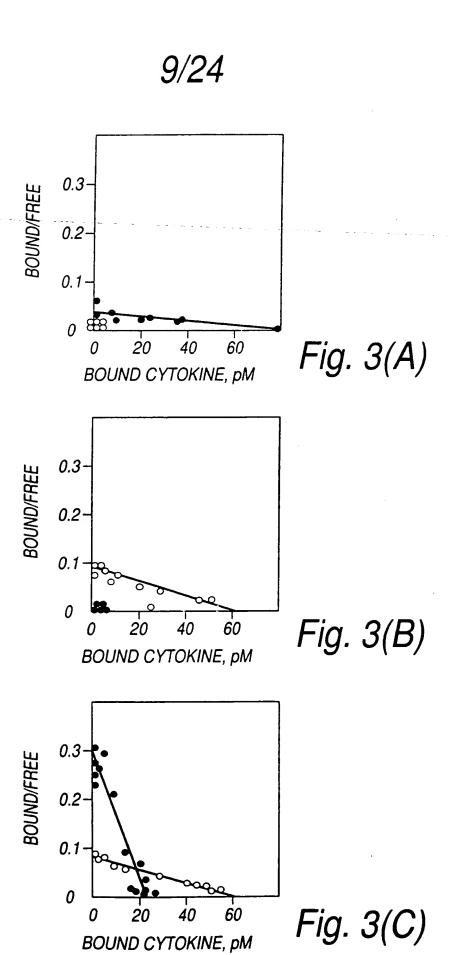
7/24

CCA	GTC	TTT	GTC	GCA	GTG	GCA	GTC	<u>ATA</u>	ATC	CTC
P	V	F	V	A	V	A	V	I	I	L
ATT	ATA	$\mathrm{T}\mathrm{T}\mathrm{T}$	CCT	CCA	ATT	CCT	GAT	CCT	GGC	AAG
I	I	F	P	P	I	P	D	P	G	K
AAT	GAT	GAT	ACC	CTG	CAC	TGG	AAG	AAG	TAT	GAC
N	D	D	T	L	H	W	K	K	Y	D
ACG	GAT'	TCT	GTA	GTG	CTG.	ATA	GAA	AAC	CTG	AAG
Т	D	S	V	V	L	Í	E	N	L	K
att	tct	ttc	ttg	cct	tca	atg	tga	CCC	tgt	gaa

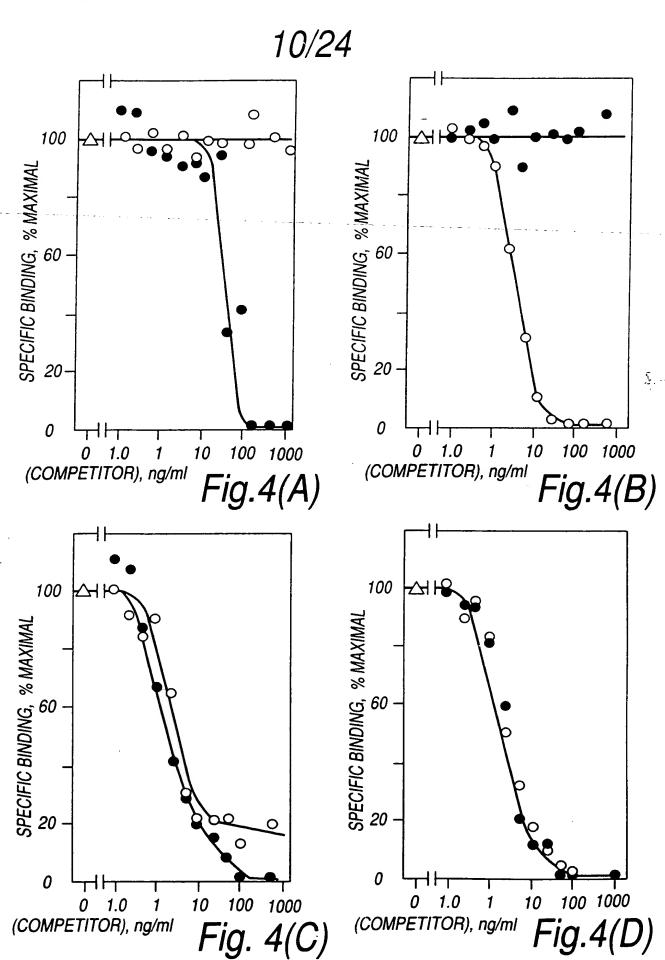
tgggggacttgttaaatagaaactgaaactact cacaggtcttgatgtgacttttgcattgaaaac aaagcaagagttcttctcgttccttgttccaat cccaaactagaggacaaagacaaggggacaatg tgatggcttcctaaggaatctctgcttgctctg

Fig. 1(vi)









icc.



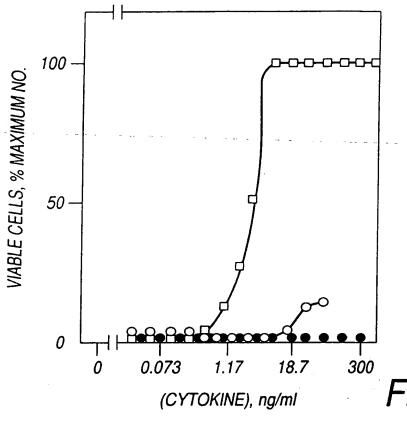


Fig. 5(A)

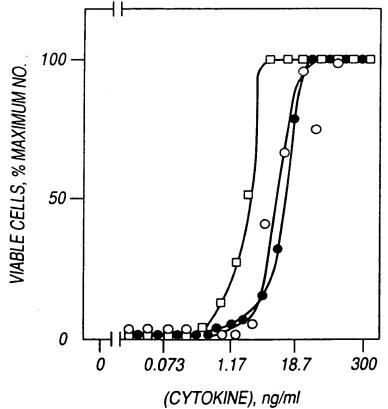


Fig. 5(B)



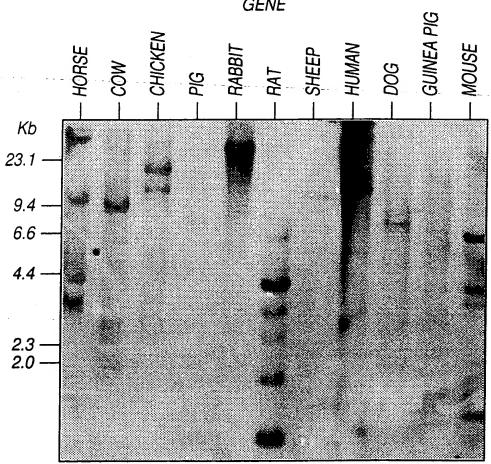


Fig. 6

(major)

DYKDD DDYKD DDESR TEVQP PVTXL SV 1 5 10 15 20 25

(minor)

ASISS SDYKD DDESR TEVQP PVTXL SV 1 5 10 15 20 25

Fig. 10

14/24	15/24
16/24	17/24
18/24	19/24
20/24	21/24
22/24	23/24

Fig. 7

Ş. ..

Н		gag	rtct	aac	cacç	gac	caa	ıgga	gtt	taac
M	-60	tga	aaa	ıgat	aga	ata	aat	ggc	ctc	gtgc
Н			E GAG	W FTGG	P SCCG				_	G GGGC
		*			*	*		*		
M	1	ATG	GCG	CGG	CCA	.GCG	CTG	CTG	GGC	GAGC
M	1	M	A	R	P	Α	L	L	G	E
Н		G	Ğ	G	G	Α	Р	${f T}$	\mathbf{E}	${f T}$
Н		GGG	GGC	GGG	GGC	GCG	CCT	ACG	GAA	ACTC
		*				*		*	*	
M	61	GGC	CAA	GTT	GCC	GCG	GCC	ACA	GAA	GTTC
M	21	G	0	V	A		A	${f T}$	E	V
			£	•				_		
H		E	N	L	С	Т	V	I	W	Т
Н				_	_	_	-	_		ACAT
••		*	*	*	*	*	O 1 • • •	*	*	*
M	121	GAA	ል ል ጥ	СТС	ጥርር	ACG	АТА	a ጥል	ጥርር	ACGT
M	41	E	N	L	C	T	I	I	W	T
T.T	44		14		C	-	-	_	• •	_
Н		S	L	W	Y	F	S	Н	F	G
H		-			_	_	-		Ī	GGCG
11		7101	∵ 111 *	100	*	*	*	*	*	0000
М	181	<u>አ</u> ርጥ(ርጥሮ	ACA!	ጥልጥ	ىئىئىل	ልርጥ	CAC	ىلىلىل.	GATG
M	61			R					F	D
1-1	<u> </u>	<u> </u>								

Fig. 7(i)

 $\mathcal{M}_{\mathcal{F}_{n}}$

15/24

acgtgcggccgggttccgaggcgagaggctgc cgaattcggcacgagccgaggcgagggcctgc L m LL Α G TGTGGGCGCTGCTGCTCTGCGCCGGCGGCGGGGCC TGTTGGTGCTGCTACTGTGGACCGCCACCGTG - - -L \mathbf{L} W \mathbf{T} NS AGCCACCTGTGACAAATTTGAGTGTCTCTGTT AGCCACCTGTGACGAATTTGAGCGTCTCTGTC S L S V \mathbf{T} N V V P G N E Α W Ρ GGAATCCACCCGAGGGAGCCAGCTCAAATTGT GGAGTCCTCCTGAAGGAGCCAGTCCAAATTGC G A S P C W S P P \mathbf{E} K K I Α P K ACAAACAAGATAAGAAAATAGCTCCGGAAACT ACCAACAGGATAAGAAAATTGCTCCAGAAACT K I A \mathbf{T} Q D K D Q

Fig. 7(ii)

미의미드그동나프 "미드미크림

Н		R	R	S	I	E	V	P	L	N	
H		CGT	CGI	TCA	ATA	GAA	GTA	CCC	CTG	SAATG	3
	· · · · · · · · · · · · · · · · · · ·		*			*		*	*		
M	241			'AAA	GAG	GAA	TTA	CCC	СТС	GATG	II
M	81	Н	R	K	E	E	L	P	${ t L}$	D	:
Н		S	${f T}$	N	E	S	E	K	P	S	
Н		AGC	ACC	AAT	GAG	AGT	GAG	AAG	CCT	AGCA	
		*		*	*	*	*	*	*	*	
M	301	AGT	GCC	AAT	GAA	AGT	GAG	AAG	CCT	AGCC	
M	101	S	A	N	E	S	E	K	P	S	
Н		·G	D	P	E	S	A	. V	${f T}$	E	
H		GGT	GAT	CCT	GAG	TCT	GCT	GTG	ACT	GAAC	
		*	*	*	*	*	*	*	*	*	
М	361	GGT	GAT	CCT	GAG	TCC	GCT	GTG.	ACT	GAGC	
M	121	G	D	P	E	S	A	V	${f T}$	E	
Н		K	С	S	W	L	P	G	R	N	
Н		AAG	TGT	тст	TGG	CTC	CCT	GGA	AGG	AATA	
		*	*	*	*	*	*	*	*	*	
М	421	AAG	TGT	TCC	TGG	CTC	ССТ	GGA	AGG	AATA	
M	141	K	C	S	W	L	P	G	R	N	
A A		•	•	~	• •		_	_	- •		
Н		W	Н	R	S	L	E	K	I	Н	
H					-		GAA	AAA.	$\overline{ ext{ATT}}$	CATC	

Fig. 7(iii)

	n	_		т	\circ	7.7	\subset	C	\circ	\sim
				L						
				CTGC						
				*						
				CTGC						
E	K	I	C	L	Q	V	G	S	Q	C
I	L	V	E	K	С	I	S	P	Р	E
TTT				LAA						
				*						
СТТ				AGI						
				K						
_		•				_	-	_	_	
т	\circ	C	т	W	н	NT ·	т.	S	v	M
				'GGC						
				*						
				GGC						
L	K	C	I	W	H	N	L	S	Y	M
\mathbf{T}	S	Р	D	${f T}$	N	Y	\mathbf{T}	L	Y	Y
				CTA						
-				*						
				CAC						
				T						
Τ.	כ	P	ע	1	П	1	1	יי	1	1
_	_				_	_	_	~		3. <i>T</i>
_				I						
PAA	GTG	AAA	ACA	ATCI	TTT	GAG	SAAG	GCC	raa:	AC

 $\bar{\mathfrak{z}}, \dots .$

D9D51843.C62968

		*			*	*	*	*		
M	481	TGG	TAC	AGC	AGC	СТС	GAG	AAA	AGT	CGTC
M	161	W	Y	S	S	L	E	K	S	R
Н		F	G		S	ਾ ਸ			<u>.h</u>	K
Н										AAAG
			001	*	*	*	0111		*	*
M	541	ATT	GCT	TGT	TCC	TTT	'AAA	TTG	ACT	AAAG
M	181	I	А	С	S	F	K	L	${f T}$	K
Н		Q	I	M	V	K	D	N	A	G
Н		CAA	ATA	ATG	GTC	AAG	GAT	AAT	GCA	GGAA
		*	*	*	*	*	*	*	*	*
M	601	CAA	ATA	ATG	GTC	AAG	GAT	AAT	GCT	GGGA
M	201	Q	I	M	V	K	D	N	A	G
H		${f T}$	S	R	V	K	P	D	P	P
H		ACT	TCC	CGT	GTG.	AAA	CCT	GAT	CCT	CCAC
		*	*		*	*	*	*	*	*
M	661	ACT'	TCC	TAT	GTG.	AAA	CCT	GAT	CCT	CCAC
M	221	${f T}$	S	Y	V	K	P	D	P	P
H					~		\mathbf{E}			Q
H		CTA'	TAT	GTG	CAA'	rgg _'	GAG	AAT(CCA	CAGA
		*		*	*	*		*	*	*
M	721								CCA	CAAA
M	241	L	L	V	Q	W	K	N	Р	Q
			<u></u>							

Fig. 7(v)

*	*	*	*	*		*	*	*	*		
AATGTGAAAACATCTATAGAGAAGGTCAACAC											
Q	С	E	N	I	Y	R	\mathbf{E}	G	Q	H	
		* * * * =	· +							Y	
V	K	D	S	S	F	E	Q	H	S	V	
TGAAGGATTCCAGTTTTGAACAACACAGTGTC * * * * *											
*				*	*	*				*	
TGGAACCT AGTTTTGAACATCAGAACG TT											
V	$\mathbf E$	P	-	S	F	\mathbf{E}	H	Q	N	V	
K	I	K	P	S	F	N	I	V	P	${f L}$	
AAATTAAACCATCCTTCAATATAGTGCCTTTA											
*	*		*	*			*	*		*	
AAATTAGGCCATCCTGCAAAATAGTGTCTTTA											
K	I	R	P	S	C	K	I	\mathbf{v}	S	L	
Н	I	K	N	L	S	F	Н	N	D	D	
H I K N L S F H N D D ATATTAAAAACCTCTCCTTCCACAATGATGAC											
*	*	*		*				*			
ATATTAAACATCTTCTCCTCAAAAATGGTGCC											
Н	I	K	Н	L	L	L	K	N	G	A	
N	F	I.	S	R	С	L	F	Y	E	V	
ATTTTATTAGCAGATGCCTATTTTATGAAGTA											
*	*		*	*	*	*		*	*	*	
ATTTTAGAAGCAGATGCTTAACTTATGAAGTG											
N	F	R	S	R	С	L	${f T}$	Y	E	V	

Н		E	V	N	N	S	Q	${f T}$	E	${f T}$		
Н	GAAGTCAATAACAGCCAAACTGAGACAC											
		*	* **	*	- *-		*	. <u>*</u>				
M	781	GAC	GTC	LAA!	raa'	`ACI	CAA	ACC	GAC	CGAC		
M	261	E	V	N	N	${f T}$	Q	${f T}$	D	R		
Н		E	N	P	E	F	Ε	R	N	Λ.		
H	GAGAATCCAGAATTTGAGAGAAATGTGG											
			*		*			*	*			
M	841	CAG	AAT	TCC	GAA	TCT	'GAT	AGA	AAC	ATGG		
M	281	Q	N	S	E	S	D	R	N	M		
Н		L	P	D	${f T}$	L	N	T	\mathbf{V}^{-1}	R		
Н		CTT	CCT	GAT	ACT	TTG	AAC	ACA	GTC	AGAA		
		*		*				*	*	*		
M	901	CTT	GCC	GAC	GCT	GTC	TAC	ACA	GTC.	AGAG		
M	301	L	Α	D	A	V	Y	${f T}$	V	R		
Н		D	D	K	L	W	S	N	W	S		
Н		GAT	GAC.	AAA	CTC'	TGG	AGT.	AAT	TGG.	AGCC		
		*		*	*	*	*		*	*		
M	961	GAC.	AAC.	AAA	CTG'	TGG.	AGT	GAT'	TGG.	AGTG	ļ	
M	321	D	N	K	L	W	S	D	W	S	ļ	
H		${f T}$	L	Y	I	${f T}$	M	L	L	I		
Н	ACACTCTACATAACCATGTTACTCATTG											
								<u> </u>				

Fig. 7(vii)

21/24

K Α Y Q \mathbf{E} V V F N Η ATAATGTTTTCTACGTCCAAGAGGCTAAATGT ATAATATTTTAGAGGTTGAAGAGGACAAATGC K D \mathbf{E} \mathbf{E} \mathbf{E} \mathbf{L} I P V Μ C F T N \mathbf{E} AGAATACATCTTGTTTCATGGTCCCTGGTGTT AGGGTACAAGTTGTTTCCAACTCCCTGGTGTT P \mathbf{L} Q F S C CY \mathbf{L} K N \mathbf{T} K R TAAGAGTCAAAACAAATAAGTTATGCTATGAG TAAGAGTCAAAACAAACAAGTTATGCTTTGAT D F \mathbf{L} C K N \mathbf{T} K V R N R K K G I S M Ε AAGAAATGAGTATAGGTAAGAAGCGCAATTCC AAGCACAGAGTATAGGTAAGGAGCAAAACTCC N E K G I S O Α Ι Α G Α V Ι P V TTCCAGTCATCGTCGCAGGTGCAATCATAGTA

Fig. 7(viii)

Ş. . . .

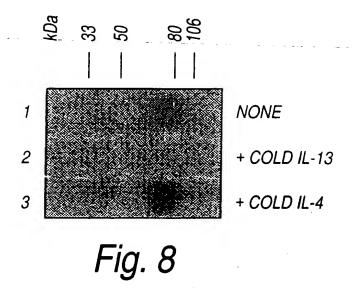
		*		*		*	*	*	*				
M	1021 ACCTTCTACACCACCATGTTACTCACCA												
M	341	${f T}$	F	Y	${f T}$	T	M	\mathbf{L}	L	${f T}$			
Н		—— T ,	T- ₁	L	Y	L_	K	R	L	K			
H		_								AAGA			
**		*	*		*	*	*	*	*	*			
M	1081	CTC	CTT	гтт	TAC	CTG	AAA	AGG	CTT	AAGA			
M	361	L	L	F	Y	L	K	R	L	K			
					•								
H		K	I	F	K	E	M	F	G	D			
Н	AAGATTTTTAAAGAAATGTTTGGAGACC												
		*	*	*	*	*	*	*	*	*			
M	1141	AAG	ATT	$ ext{TTT}$	AAA	GAA	ATG	$\mathbf{T}\mathbf{T}\mathbf{T}$	GGA	GACC			
M	381	K	I	F	K	E	M	F	G	D			
Н		D	I	Y	\mathbf{E}	K	Q	${f T}$	K	${f E}$			
H		GACATCTATGAGAAGCAAACCAAGGAGG											
	•	*	*	*	*	*	*		*	*			
M	1201	GAC.	ATC	TAT	GAG.	AAA	CAA	TCC.	AAA	GAAG			
M	401	D	I	Y	E	K	Q	S	K	E			
				_	~	_	.4.		•				
H		K	K	A	S	Q	*	.					
H					TCT	CAG	TGA	tgg	aga	taat			
	1061	*	*	*	~ ~m	aami	ma 3	L					
M	1261							tgg	gga	gaag			
M	421	K	K	A	A	P	*						

Fig. 7(ix)

TTCCAGTCTTTGTCGCAGTGGCAGTCATAATC Α V A Ι \mathbf{F} V I P · P Ι I I P I D G F TTATTATATTCCCTCCAATTCCTGATCCTGGC * * * TCATTATATTTCCTCCAATTCCTGATCCTGGC P Ι P D P Ι I I F P G D \mathbf{T} \mathbf{L} Η W K K Y Q Ν D AGAATGATGATACTCTGCACTGGAAGAAGTAC AGAATGATGATACCCTGCACTGGAAGAAGTAT \mathbf{T} L Η W K K Y Q N D D \mathbf{T} S V V L I E N L E D AAACCGACTCTGTAGTGCTGATAGAAAACCTG AAACGGATTCTGTAGTGCTGATAGAAAACCTG S \mathbf{T} V L I \mathbf{E} N \mathbf{L} \mathbf{E} D V ttatttttaccttcactgtgaccttgagaaga

Fig. 7(x)

tgatttctttcttgccttcaatgtgaccctgt



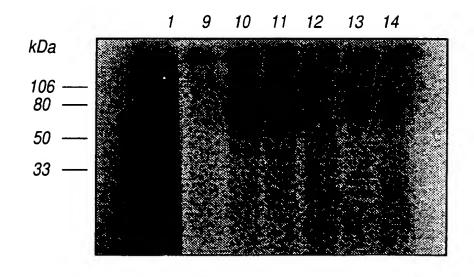


Fig. 9